Distributed by:

JAMECO® ELECTRONICS

www.Jameco.com ✦ 1-800-831-4242

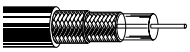
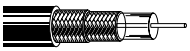
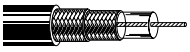
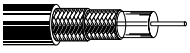
The content and copyrights of the attached material are the property of its owner.

Precision Video Cable for Analog and Digital

RG-59/U Type

Jameco Part Number 232979 (8281-010-500)

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD Inch	Nominal Core OD mm	Shielding Materials Nom. DCR	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/Ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100m
20 AWG Solid .031″ Bare Copper • 98% Tinned Copper Double Braid Shield *(continued)*																			
Polyethylene Insulation • Clear Polyethylene Jacket																			
Indoor Use 80°C	**9141**		1000	304.8	73.0	33.2	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.200	5.06	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	20.0	65.6	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.0 3.5 4.3 5.0 6.2 7.2 7.4 9.1	1.0 1.6 2.6 6.6 11.5 14.1 16.4 20.3 23.6 24.3 29.8
											100% Sweep tested. 5 MHz to 850 MHz.								
20 AWG Solid .031″ Bare Copper • 98% Tinned Copper Double Braid Shield																			
Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Light Blue, White, Orange or Black)																			
80°C	**8281**		500▲ 1000	152.4 304.8	37.0 74.0	16.8 33.6	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.3 5.1 6.3 7.4 7.6 9.2	.8 1.8 2.6 6.9 9.8 14.1 16.6 20.7 24.3 24.9 30.2
											For Plenum version of 8281, see 88281. 100% Sweep tested. 5 MHz to 850 MHz.								
▲500 ft. put-up not available in White.																			
Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 10 colors)♦																			
UL AWM Style 1354 (30V 80°C)	**8281B**	NEC: CMR CEC: CMG FT4	1000	304.8	85.0	38.6	20 AWG (solid) .031″ BC 9.9Ω/M′ 32.5Ω/km	.198	5.03	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .8 2.1 3.0 4.4 5.1 6.6 7.8 8.0 10.2	.8 1.8 2.6 6.9 9.8 14.4 16.6 21.5 25.4 26.2 33.5
											For Plenum version of 8281B, see 88281. 100% Sweep tested. 5 MHz to 850 MHz.								
♦8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.																			
22 AWG Stranded (7x29) .031″ Bare Compacted Copper* • Double Tinned Copper Braid Shield																			
Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)																			
High-Flex 60°C	**8281F**		500◗ 1000	152.4 304.8	32.0 65.0	14.5 29.5	22 AWG (7x29) .031″ BCC 12.2Ω/M′ 40.0Ω/km	.193	4.90	TC Double Braid 98% Shield Coverage 1.7Ω/M′ 5.6Ω/km	.305	7.75	75	66%	21.0	68.9	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.3 .5 .9 2.5 3.6 5.1 6.0 7.4 8.7 8.9 10.5	.9 1.7 2.9 8.0 11.6 16.7 19.7 24.3 28.5 29.2 34.4
											100% Sweep tested. 5 MHz to 850 MHz.								
◗500 ft. put-up available in Black only.																			
20 AWG Solid .031″ Bare Copper • 98% Tinned Copper Double Braid Shield																			
Plenum • FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	**88281**	NEC: CMP CEC: CMP FT6	500† 1000†	152.4 304.8	46.0 86.0	20.9 39.1	20 AWG (solid) .032″ BC 9.9Ω/M′ 32.5Ω/km	.185	4.70	TC Double Braid 98% Shield Coverage 1.1Ω/M′ 3.6Ω/km	.271	6.88	75	71%	19.0	62.4	1 3.6 10.0 71.5 135 270 360 540 720 750 1000	.2 .5 .8 2.3 3.3 5.1 6.1 8.0 9.7 10.0 12.3	.7 1.6 2.6 7.5 10.8 16.7 20.0 26.2 31.8 32.8 40.3
											100% Sweep tested. 5 MHz to 216 MHz.								
Suitable for Outdoor and Direct Burial applications.																			

BC = Bare Copper • DCR = DC Resistance • BCC = Bare Compacted Copper • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.
†Spools are one piece, but length may vary ±10% from length shown.